

73rd MORSS CD Cover Page

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Training Capabilities AoA

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***Training Capabilities Analysis
of Alternatives (TC AoA)
Update***

***MORSS – WG 22
21 June 2005***

**Fred Hartman
Director JAEC, OUSD(P&R)**

Outline

Training Capabilities AoA

Background

- **AoA Findings and Recommendations**
- **Way Ahead**
- **Discussion**

Background

Training Capabilities AoA

- **Program Decision Memorandum 1, 12 Dec 02**
 - **Terminated JSIMS on 30 Sep 03 (Block 1)**
 - **Conduct an Analysis of Alternatives (AoA) beginning in FY03**
 - **Identify cost-effective methods for Joint & Service Training**
- **AoA Guidance signed by USD, Acquisition Technology & Logistics (AT&L) Jul 03.**
 - **Senior Steering Group (SSG) Co-Chaired by USD (P&R) and JFCOM**
 - **SSG included training stakeholders from OSD, Services, Joint Staff, and Intelligence Agencies**
 - **Final Report completed 30 Jul 04**

Joint Simulation System (JSIMS) Impact

Training Capabilities AoA

- **Directed by Program Decision Memorandum 1, 12 Dec 02**
 - **Revise program to complete Block 1 software (Sep 03)**
 - **Establish a software support facility (SSF) managed by JFCOM**
 - **Transfer all program software, licenses, integration hardware and documentation to the JFCOM SSF**
- **Final JSIMS testing conducted March 2004**
 - **JSIMS was not ready to support joint training exercises**
 - **Potential for reuse of concepts, functional federates, and common software components of JSIMS in other federations**
- **SSF has evolved to Joint Development & Integration Facility (JDIF)**
 - **USJFCOM using former JSIMS Integration Lab in Orlando, FL**
 - **Focused on supporting Joint Force Trainer federations**
 - **Continues to harvest JSIMS capabilities to support joint training federations**

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Findings & Observations

Training Capabilities AoA

- **Management & oversight more than technology has caused failure of previous joint training simulation efforts**
- **Current joint training has been largely based on training exercises supported by simulations**
 - **Not all training issues are cost effective for large scale simulation applications**
 - **Alternative training methodologies may provide more cost effective solutions for frequent training of COCOM and JTF staffs**
- **Intelligence must become part of training audience not just a training aid**
- **Not all Joint training issues were resolved within time and resources allotted to the AoA Team**
 - **Detailed programmatic details and implementing actions worked in Fall 04 Program/Budget process**

SSG Recommendations

Training Capabilities AoA

- **Management Decisions**
 - **Joint Training Functional Capabilities Board**
 - **Joint Requirements Office (simulations) at JFCOM**
 - **Transition SSG Oversight to T2 Exec Steering Group**
- **Simulation Options**
 - **Constrained enhancements to Base Case for FY 06-11**
- **Re-engineering Training Options**
 - **Re-engineering Study with Prototyping in COCOMs**
- **Acquisition Prototype Options**
 - **Three year prototype led by SOCOM with JFCOM**
- **Include Intelligence as partner in future joint training**
 - **Working constructive simulation federation content Intel Community and JFCOM**

Outline

Training Capabilities AoA

- **Background**
- **AoA Findings and Recommendations**
- ✓ **Way Ahead**
- **Discussion**

Management Way Ahead

Training Capabilities AoA

Management Decisions

- **Joint Training Functional Capabilities Board (FCB)**
 - Tri-Chair by OSD (P&R), Joint Staff J7, and JFCOM
 - Focused on analyzing capabilities of existing and future programs, projects and initiatives, Live-Virtual-Constructive environment
 - Officially chartered in Sep 04 by JROC
- **Joint Requirements Office (simulations) functions at JFCOM**
 - Joint Training Requirements Group met in March 2005 validating and updating TC AoA Final Report training gaps and findings
 - Managing the development and integration of joint models and federations
 - Coordinating the Joint LVC JCD with JNTC JMO and FCB
- **Transition SSG Oversight to T2 Exec Steering Group**
 - Completed with briefing to 1 Oct 04 T2 ESG and regular updates provided T2 JIPT and SAG Meetings

Simulation Way Ahead

Training Capabilities AoA

Simulation Enhancements

- Built a Joint Force Trainer M&S Toolkit that is supporting Joint National Training Capability and Joint Task Force Cdr and staff training, Functional Component Cdr and staff
 - Core of the constructive Toolkit are two federations using existing Joint, Service, and agency M&S applications federated in an HLA environment to meet Joint training needs.
- Supported JNTC Initial Operating Capability (horizontal, vertical and integrated), Mission Rehearsal Exercises for OIF/OEF, and planned support for MRXs and Joint training events on schedule for remainder FY05
 - Supporting:
 - *Joint Operational Concepts*
 - *Major Combat Operations (MCO)*
 - *Stability Operations*
 - *Homeland Security (HLS)*
 - *Strategic Deterrence*
- Partnership with U.S. Allies, NATO, PfP, and Government Agencies
- Adhering to DoD standards and architectures for flexible, scalable, efficient and deployable simulation(s), federation(s) or bridged federations to train multiple echelons simultaneously

Re-engineering Training

Training Capabilities AoA

- Exercises supported by large simulations are not appropriate for some types of joint training
- Must include individual as well as collective training in Learning Continuum
- Recommended alternative training methodologies
 - “Lightweight” simulations / federations
 - Off the shelf (GOTS/COTS) products
 - Standard Scenario Generation software and data
 - Massively multi-player gaming applications
 - Best for small audience (<50) distributed seminar games
 - Pre-training for large exercise participants
 - Story driven training
 - Non-combat skill areas such as peacekeeping, crisis action
 - Unique functional federates (specialty models)
 - Instructor support tools
 - Integrate with light federations
 - Embedded training (C4ISR systems)

Other AoA Actions

Training Capabilities AoA

- **Need Intelligence Community as full partner in Joint and Service training**
 - USD(I) leading effort with JFCOM for Joint National Intelligence Training Federation (JNITF)
 - One stop access to Intel for training environments
- **Related issues – highlighted but not solved in AoA**
 - **Multi-Level Security for training systems**
 - Need Intel Community policy and procedures for training and operations
 - **Full Global Information Grid (GIG) Integration to include Training Enterprise Services**
 - Build distributed training enhancements now to be compatible with the GIG
 - Data issues are a large effort

Post - AoA Status / Update

Training Capabilities AoA

- **Completed TC AoA Program / Budget negotiations**
 - PDM II, Dec 04 provided offsets for Alternatives #4 and #5
 - Alt #4, Acquisition Prototype
 - Alt #5, Re-engineering Training
 - Commitment at JROC to begin funding of post-AoA activities for enhanced simulations, other training systems, and an acquisition prototype
 - Issue Paper also identified offsets for Alt #3, Simulations
- **Implementing recommendations in AoA Final Report**
 - Management actions in place
 - Blended Course of Action for future training enhancements for both simulations and other training system enhancements
 - Acquisition prototype scheduled for FY 06-08
 - Conducting studies in FY 05

Questions & Discussion

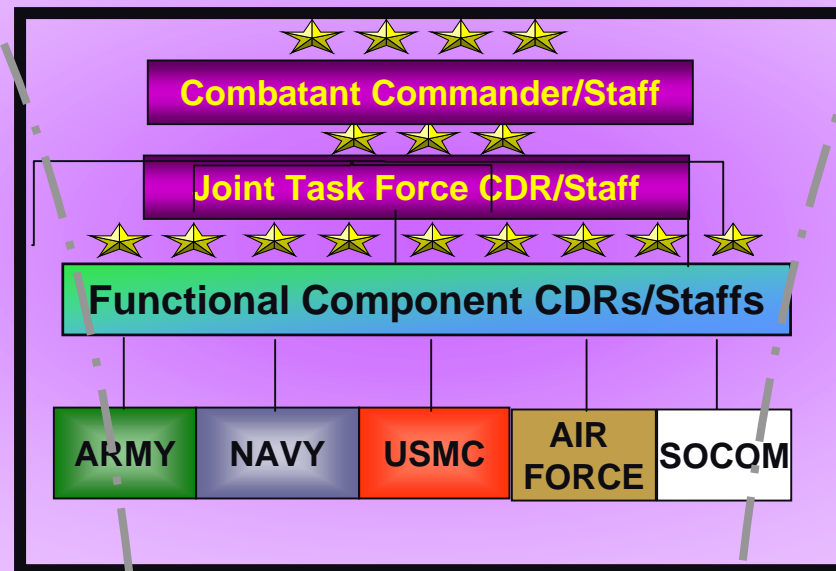
Bounded Scope

Training Capabilities AoA

Strategic

Operational

Tactical



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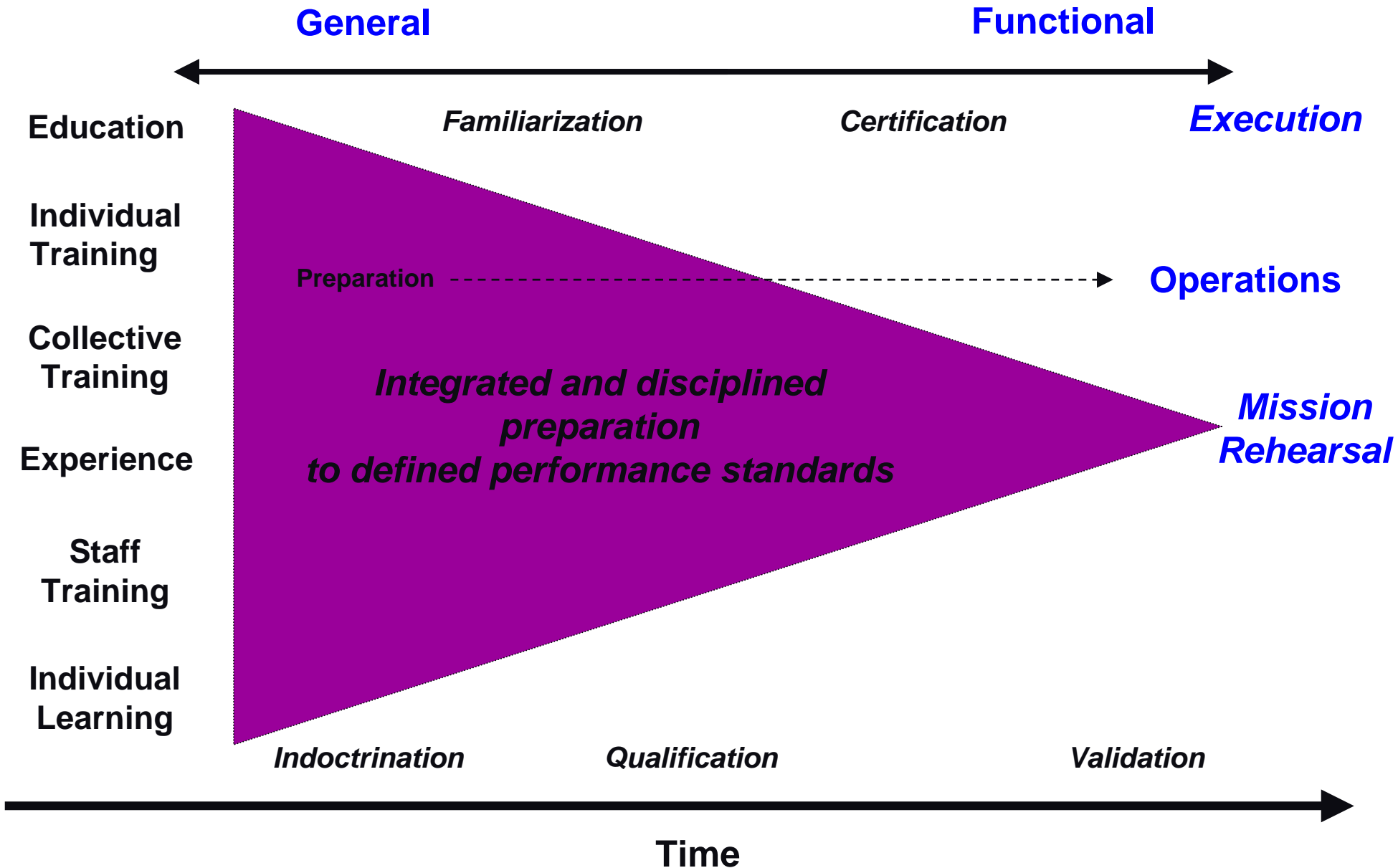
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INTEGRATION OF
JOINT & COMBINED
EFFECTS / SYSTEMS
TO LOWEST LEVEL

Joint Training Continuum

Training Capabilities AoA



L-V-C Architecture

Training Capabilities AoA

